

Knowledge Organiser

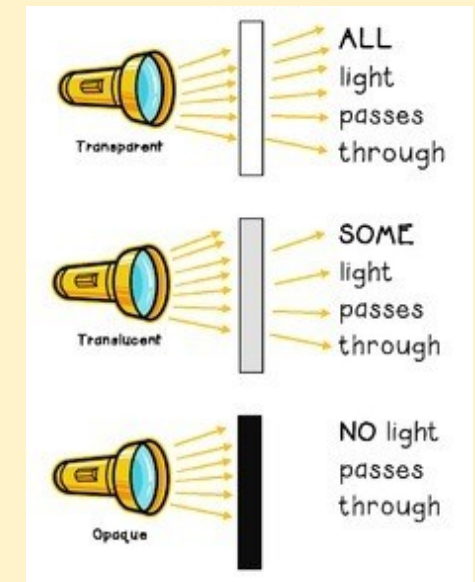
Year 6- Light

Vocabulary

picture	key word	definition
	light source	an object that emits light
	emit	to emit light means to produce it
	opaque	something that cannot be seen through
	transparent	something that can be seen through
	translucent	something that can partially be seen through
	reflect	when light bounces off a surface
	shadow	the absence of light
	mirror	a surface that reflects light

Key information about light

- Light is a form of energy that is visible to the human eye.
- Light sources can be natural or man-made.
- Light travels in a straight line.
- Light travels faster than sound.
- Objects are seen because they reflect light into the eye.
- Shadows are caused when certain materials block light.
- Shadows have the same shape as the objects that cast them.
- The further away the light source is, the smaller the shadow is. The closer the source of the light, the bigger the shadow.



Further Reading

<https://www.bbc.co.uk/bitesize/topics/zbssgk7>

<https://www.theschoolrun.com/what-is-light>

GLUE ME

What I am expected to know from the National curriculum

- recognise that light appears to travel in straight lines
- use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
- explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
- use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
- QR code for end of unit assessment:



QUESTIONS TO DEEPEN YOUR LEARNING

Character	Critical Thinking	Creativity	Communication	Citizenship	Collaboration
Can you create a list of opaque, transparent and translucent materials?	How can you prove that light travels in straight lines?	Can you create a periscope?	Can you explain to a classmate how light travels from a light source to the eye?	Can you create an invention that uses solar energy?	Can you work with another person to create an information poster about light?